

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
17 June 2004 (17.06.2004)

PCT

(10) International Publication Number  
WO 2004/050689 A2

(51) International Patent Classification<sup>7</sup>: C07K 7/06, C07C 281/06, A61K 31/175, 38/04, C07D 231/04, C07C 281/02, A61K 31/415

(21) International Application Number: PCT/EP2003/015033

(22) International Filing Date: 1 December 2003 (01.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 02102673.7 2 December 2002 (02.12.2002) EP

(71) Applicant (for all designated States except US): APPLIED RESEARCH SYSTEMS ARS HOLDING N.V. [NL/NL]; Pietermaai 15, Curaçao (AN).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LOPEZ AREIZA, John, Jairo [CL/CH]; Chemin Isabelle de Montolieu 131, CH-1010 Lausanne (CH). RUECKLE, Thomas [DE/CH]; 9, chemin du Vieux Puits, CH-1228 Plan-les-Ouates (CH). SOTO-JARA, Claudio [CL/US]; University of Texas Medical Branch, Dept of Neurology, 301 University Blvd., Galveston, TX 77555 (US).

(74) Agent: RETZLER, C.; Serono International SA - Intellectual Property, 12, chemin des Aulx, CH-1228 Plan-les-Ouates (CH).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/050689 A2

(54) Title: AZA-PEPTIDES

(57) Abstract: Provided are peptides comprising at least one azaamino acid and having  $\beta$ -sheet breaking ability, useful in the treatment and prevention of diseases such as alzheimer's disease, Dementia Pugilistica (including head trauma), Hereditary Cerebral Haemorrhage with amyloidosis of the Dutch type (HCHWA-D) and Vascular Dementia with amyloid angiopathy.